Website:http://biz.LGservice.com
E-mail:http://www.LGEservice.com/techsup.html

COLOR MONITOR
SERVICE MANUAL

CHASSIS NO. : CL-62

MODEL: FLATRON L1710B (L1710BM-ALR, AD**R, AU**R, AG**R)**

( ) **Same model for Service

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

***Same looking with new chassis.**

Issue Date; 2004.2

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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: TFT SXGA LCD
Size	: 17 inch
Pixel Pitch	: 0.264 (H) x 0.264 (V)
Color Depth	: 16.2M colors
Electrical Interface	: LVDS
Surface Treatment	: Hard-coating(3H), Anti-Glare
Operating Mode	: Normally White, Transmissive mode
Backlight Unit	: Top/Bottom edge side 4-CCFL (Cold Cathode Fluorescent Lamp)

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

(LPL Module)

Left : -60° min., -70°(Typ) Right : +60° min., +70°(Typ)
Top :+45° min., +60°(Typ) Bottom : -45°min., -60°(Typ)

(AU Module)

Left : -60° min., -70°(Typ) Right : +60° min., +70°(Typ)
Top :+60° min., +70°(Typ) Bottom : -60°min., -70°(Typ)

(CMO Module)

Left : -60° min., -70°(Typ) Right : +60° min., +70°(Typ)
Top :+50° min., +60°(Typ) Bottom : -50°min., -60°(Typ)

(Hydis Module)

Left : -80°(Typ) Right : +80°(Typ)
Top : +80°(Typ) Bottom : -60°(Typ)

2-2. Luminance : 200(min), 250(Typ) ***-LPL Module***
200(min), 260(Typ) ***-AUO Module***
230(min), 280(Typ) ***-CMO Module***
250(min), 300(Typ) ***-Hydis Module***

2-3. Contrast Ratio : 300(min), 450(Typ)

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal
- Type : Separate Sync, SOG (Sync On Green) Composite Sync, Digital

3-2. Video Input Signal

1) Type	: R, G, B Analog
2) Voltage Level	: 0~0.71 V
a) Color 0, 0	: 0 Vp-p
b) Color 7, 0	: 0.467 Vp-p
c) Color 15, 0	: 0.714 Vp-p
3) Input Impedance	: 75 Ω

3-3. Operating Frequency

Horizontal	: 30 ~ 83kHz (Digital: ~71kHz)
Vertical	: 56 ~ 75Hz

4. Max. Resolution

Analog	: 1280 x 1024 / 75Hz
DVI Analog/ Digital	: 1280 x 1024 / 60Hz

5. POWER SUPPLY

5-1. Power : AC 100~240V, 50/60Hz , 1.0A

5-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 43 W	GREEN
STAND-BY	OFF/ON	OFF	less than 1 W	AMBER
SUSPEND	ON/OFF	OFF	less than 1 W	AMBER
DPMS OFF	OFF/OFF	OFF	less than 1 W	AMBER

6. ENVIRONMENT

6-1. Operating Temperature: 10°C~35°C (50°F~95°F) (Ambient)
6-2. Operating Humidity : 10%~80%

6-3. MTBF : 50,000 Hours(Min)

7. DIMENSIONS (with TILT/SWIVEL)

Width	: 370 mm (14.57")
Depth	: 223mm (8.78")
Height	: 421 mm (16.57")

8. WEIGHT (with TILT/SWIVEL)

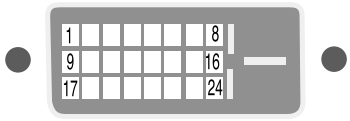
Net. Weight	: 6.0 kg (13.23 lbs)
Gross Weight	: 7.6 kg (16.76 lbs)

9. USB

Downstream power supply	: 100mA for each(MAX)
Communication speed	: 12Mbps(full), 1.5Mbps(low)
USB Port	: 1Upstream port 2Downstream ports

Signal Connector Pin Assignment

• DVI-I Connector (Digital/Analog)



Pin	Signal (DVI-D)	Pin	Signal (DVI-D)
1	T. M. D. S. Data2-	16	Hot Plug Detect
2	T. M. D. S. Data2+	17	T. M. D. S. Data0-
3	T. M. D. S. Data2/4 Shield	18	T. M. D. S. Data0+
4	T. M. D. S. Data4-	19	T. M. D. S. Data0/5 Shield
5	T. M. D. S. Data4+	20	T. M. D. S. Data5-
6	DDC Clock	21	T. M. D. S. Data5+
7	DDC Data	22	T. M. D. S. Clock Shield
8	Analog Vertical Sync.	23	T. M. D. S. Clock+
9	T. M. D. S. Data1-	24	T. M. D. S. Clock-
10	T. M. D. S. Data1+		
11	T. M. D. S. Data1/3 Shield		
12	T. M. D. S. Data3-		
13	T. M. D. S. Data3+		
14	+5V Power		
15	Ground (return for +5V, H. Sync. and V. Sync.)		

T. M. D. S. (Transition Minimized Differential Signaling)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. ***These parts are marked ⚠on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

⚠ CAUTION

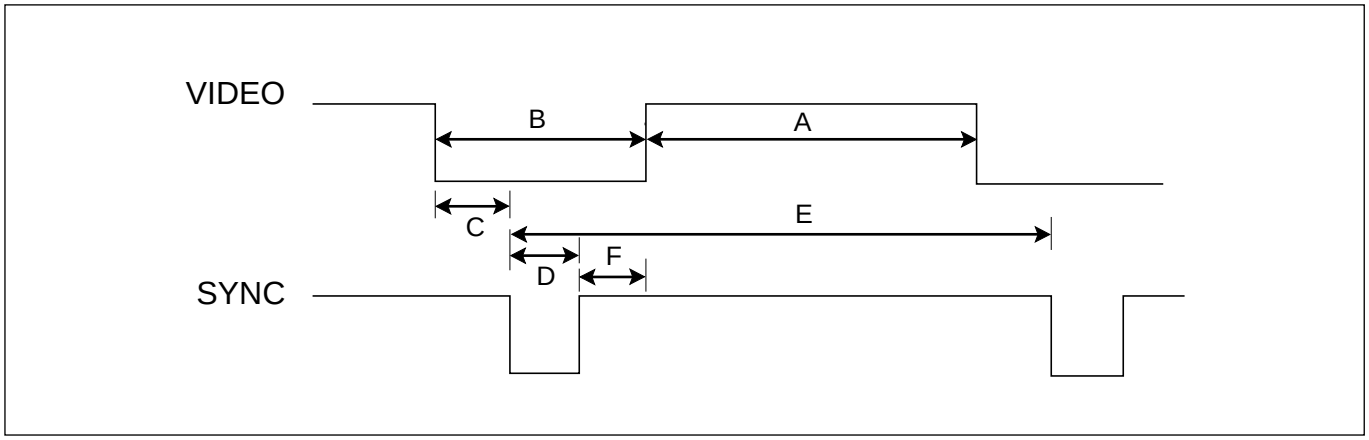
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

⚠ WARNING

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

TIMING CHART



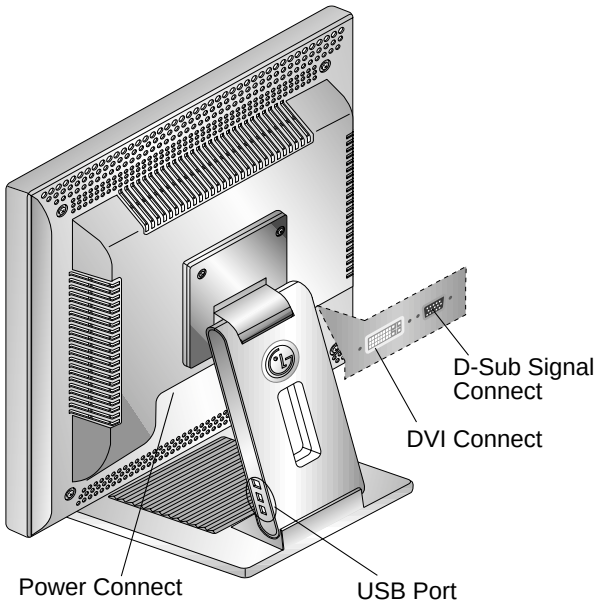
<< Dot Clock **(MHz),** Horizontal Frequency **(kHz)**, Vertical Frequency **(Hz)**, Horizontal etc... **(µs)**, Vertical etc... **(ms) >>**

Mode	H/V Sort	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Front Porch (C)	Sync Duration (D)	Back Porch (F)	Resolution
1	H	+	25.175	31.469	800	640	16	96	48	**640x350 70Hz**
	V	–		70.8Hz	449	350	37	2	60	
2	H	–	28.321	31.468	900	720	18	108	54	**720x400 70Hz**
	V	+		70.09	449	400	12	2	35	
3	H	–	25.175	31.469	840	640	16	96	48	**640x480 60Hz**
	V	–		59.94	525	480	10	2	33	
4	H	–	31.5	37.5	840	640	16	64	120	**640x480 75Hz**
	V	–		75	500	480	1	3	16	
5	H	+	40.0	37.879	1056	800	40	128	88	**800x600 60Hz**
	V	+		60.317	628	600	1	4	23	
6	H	+	49.5	46.875	1056	800	16	80	160	**800x600 75Hz**
	V	+		75.0	625	600	1	3	21	
7	H	+/–	57.283	49.725	1152	832	32	64	224	**832x624 75Hz**
	V	+/–		74.55	667	624	1	3	39	
8	H	–	65.0	48.363	1344	1024	24	136	160	**1024x768 60Hz**
	V	–		60.0	806	768	3	6	29	
9	H	–	78.75	60.123	1312	1024	16	96	176	**1024x768 75Hz**
	V	–		75.029	800	768	1	3	28	
10	H	+/–	100.0	68.681	1456	1152	32	128	144	**1152x870 75Hz**
	V	+/–		75.062	915	870	3	3	39	
11	H	+/–	92.978	61.805	1504	1152	18	134	200	**1152x900 65Hz**
	V	+/–		65.96	937	900	2	4	31	
12	H	+	108.0	63.981	1688	1280	48	112	248	**1280x1024 60Hz**
	V	+		60.02	1066	1024	1	3	38	
13	H	+	135.0	79.976	1688	1280	16	144	248	**1280x1024 75Hz**
	V	+		75.035	1066	1024	1	3	38	

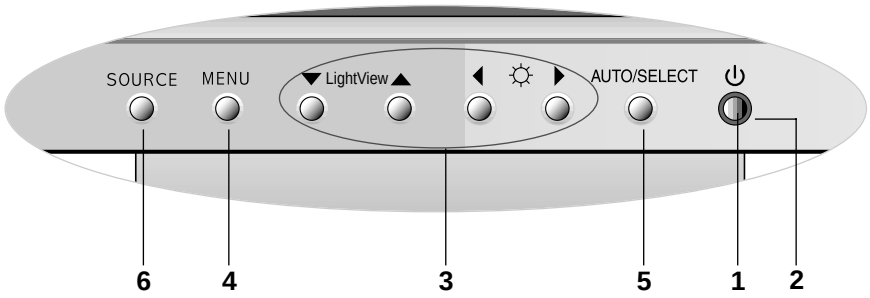
OPERATING INSTRUCTIONS

FRONT VIEW

REAR VIEW



Front Control Panel



1. Power ON/OFF Button

Use this button to turn the monitor on or off.

2. Power Indicator

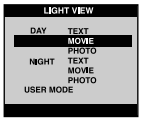
This indicator lights up green when the monitor operates normally. If the display is in DPM(Energy Saving)mode, this indicator color change to amber.

3. ▼▲◀ ▶ Button

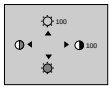
Use these buttons to choose or adjust items in the On Screen Display.

▼ LightView ▲

This feature lets you easily select the best desired image condition optimized to the environment (ambient illumination, image types etc.).



- **DAY**: Bright ambient illuminaion
- **NIGHT**: Dark ambient illuminaion
- **TEXT**: For text images(Word processing etc.)
- **MOVIE**: For animation images in videos or movies
- **PHOTO**: For pictures or drawings
- **USER MODE**: For use under user setup image conditions(Brigheness, contrast and color tint are selected by the user in OSD Screen Setup Menu.)



◀ ☼ ▶

Bring up Contrast and Brightness adjustment.

: ◀ ☼ ▶ →▼▲◀ ▶→ MENU

4. MENU Button

Use these buttons to enter or exit the On Screen Display.

5. AUTO/SELECT Button

Use this button to enter a selection in the On Screen Display.

When adjusting your display settings, always press the **AUTO/SELECT** button before entering the On Screen Display (OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode).The best display mode is **1280x1024@60Hz**.

6. SOURCE Button

Use this button to make Dsub or DVI connector active.

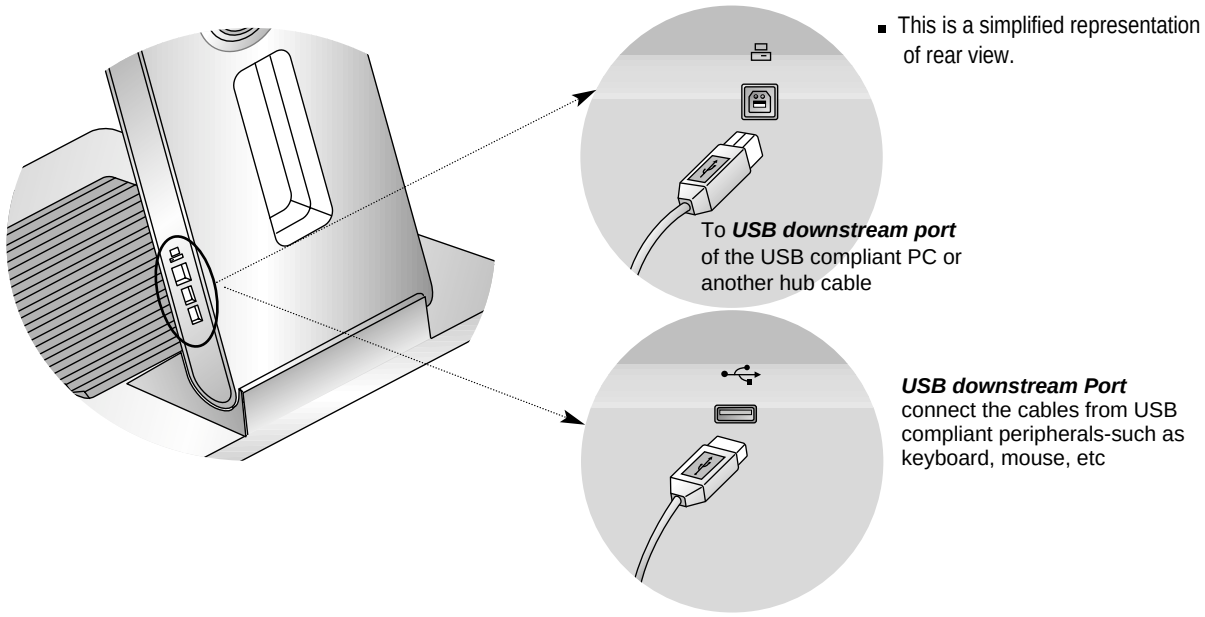
This feature is used when two computers are connected to the monitor. The default setting is Dsub.

Making use of USB (Universal Serial Bus)*

USB (Universal Serial Bus) is an innovation in connecting your different desktop peripherals conveniently to your computer. By using the USB, you will be able to connect your mouse, keyboard, and other to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. USB allows you to connect chain up to 120 devices on a single USB port, and you can “hot” plug (attach them while the computer is running) or unplug them while maintaining Plug and Play auto detection and configuration. This monitor has an integrated BUS-powered USB hub, allowing up to 2 other USB devices to be attached it.

USB connection

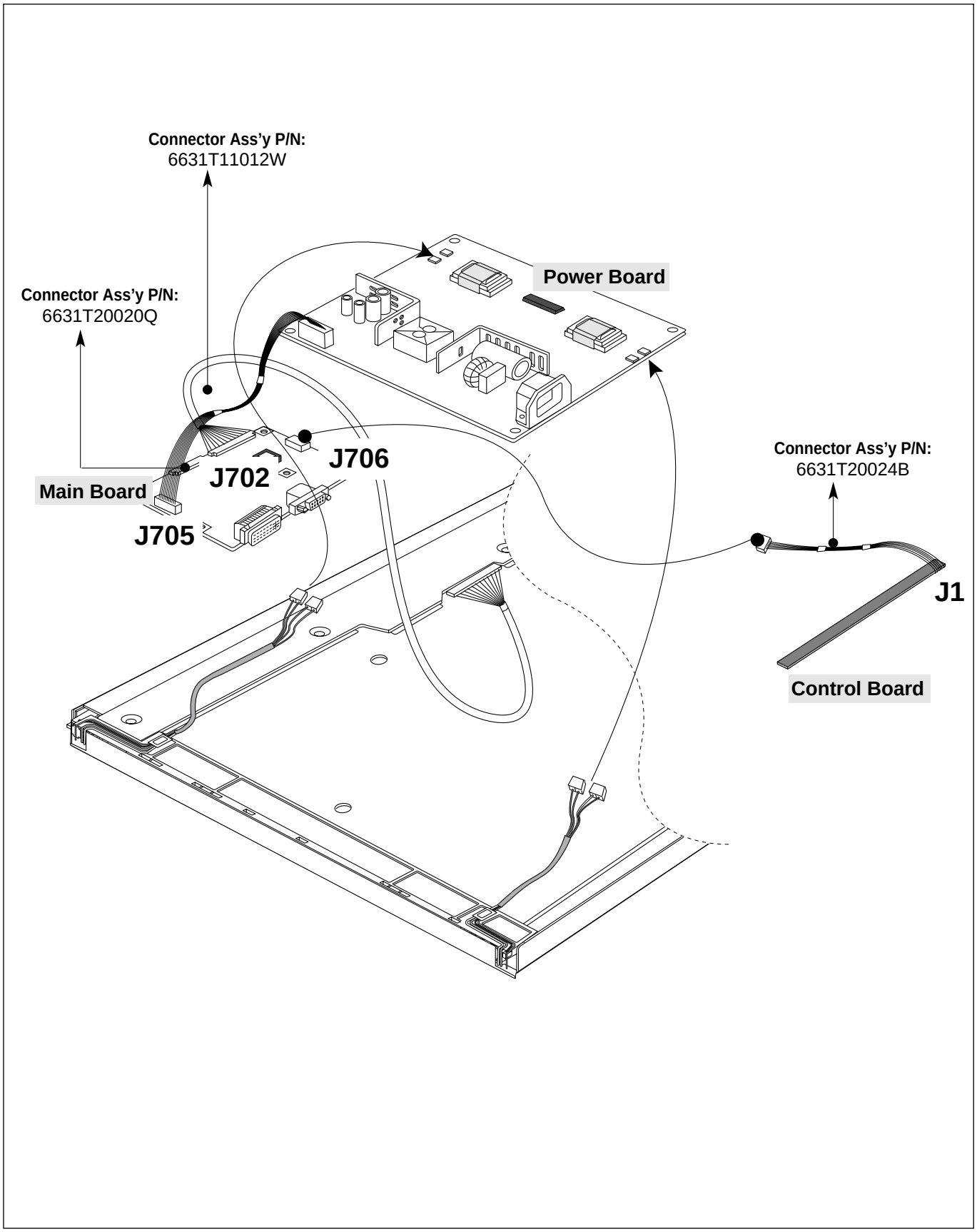
1. Connect the upstream port of the Display to the downstream port of the USB compliant PC or another hub using the USB cable. (Computer must have a USB port)
2. Connect the USB compliant peripherals to the downstream ports of the monitor.


This is a simplified representation of rear view.
To ***USB downstream port*** of the USB compliant PC or another hub cable
USB downstream Port connect the cables from USB compliant peripherals-such as keyboard, mouse, etc

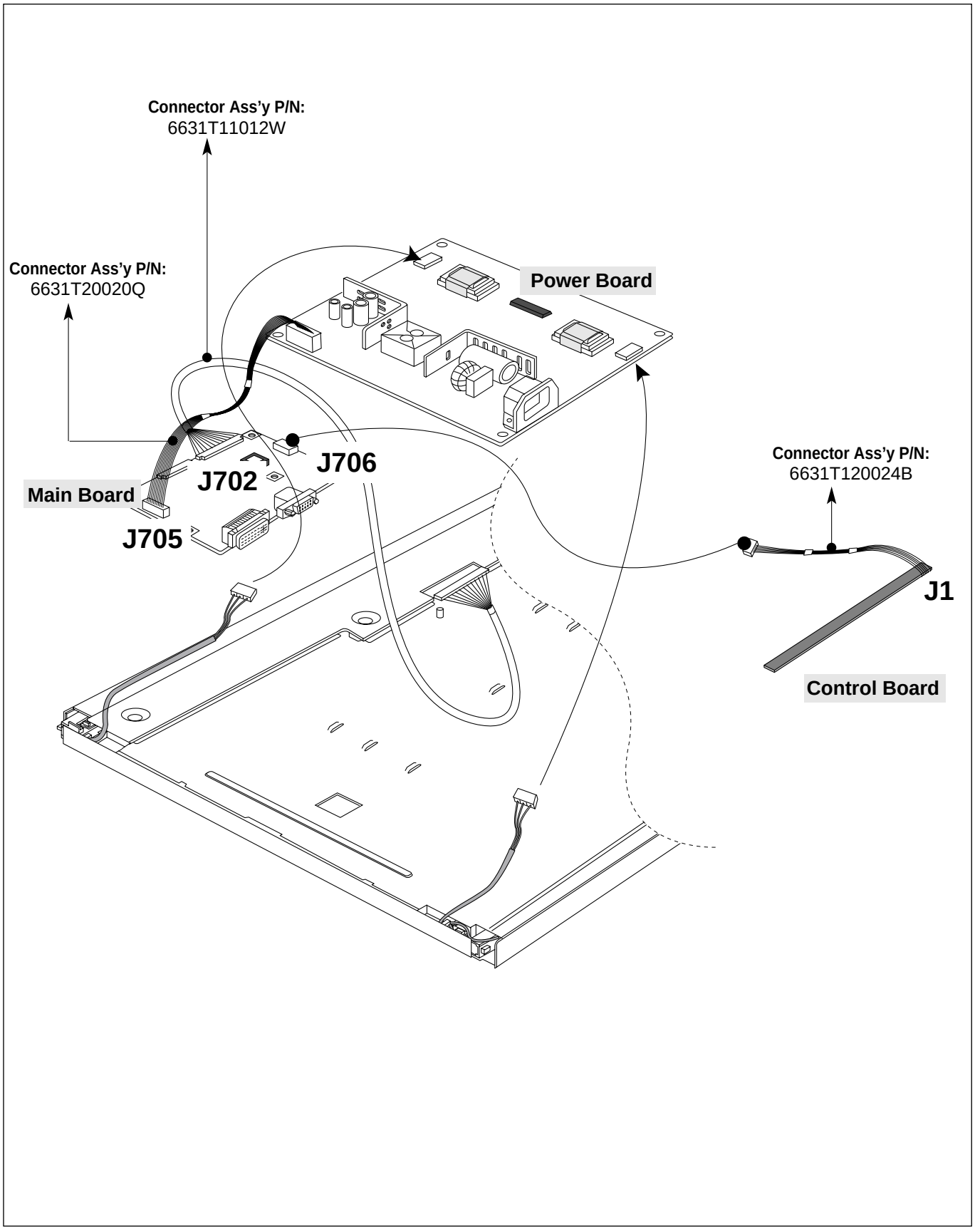
NOTE

- To activate the USB hub function, the monitor must be connected to a USB compliant PC(OS) or another hub with the USB cable(enclosed).
- When connecting the USB cable, check that the shape of the connector at the cable side matches the shape at the connecting side.
- Even if the monitor is in a power saving mode, USB compliant devices will function when they are connected the USB ports(both the upstream and downstream) of the monitor.

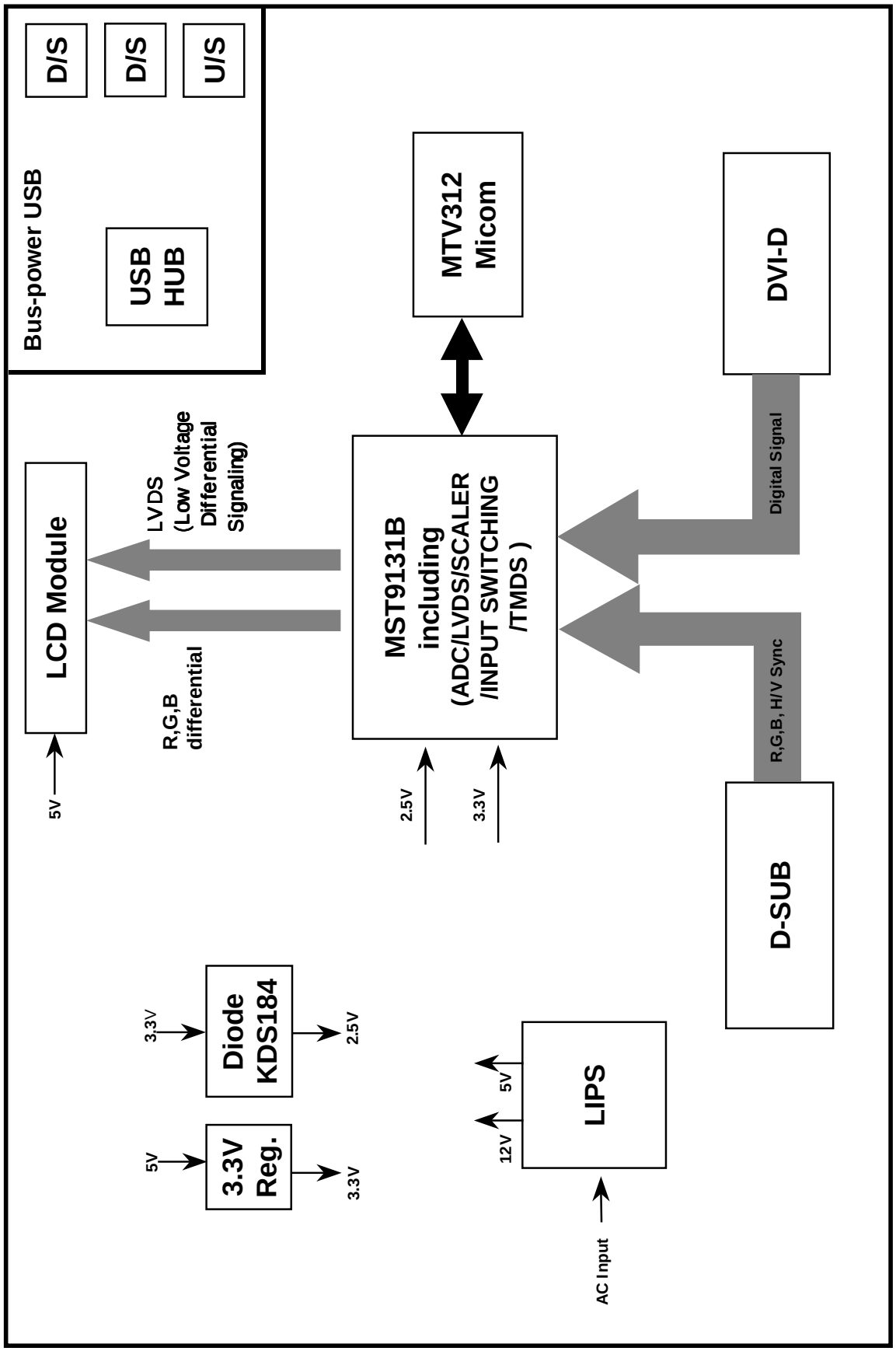
WIRING DIAGRAM
(LG philips/Hydis/CMO Module)



WIRING DIAGRAM
(AU Module)



BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Video Controller Part.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixel clock.
The pixel clock for each mode is generated by the PLL.
The range of the pixel clock is from 25MHz to 135MHz.
This part consists of the Scaler, ADC and TMDS receiver .
The Scaler gets the video signal converted analog to digital, interpolates input to 1280 X 1024 resolution signal and outputs 8-bit R, G, B signal to transmitter.

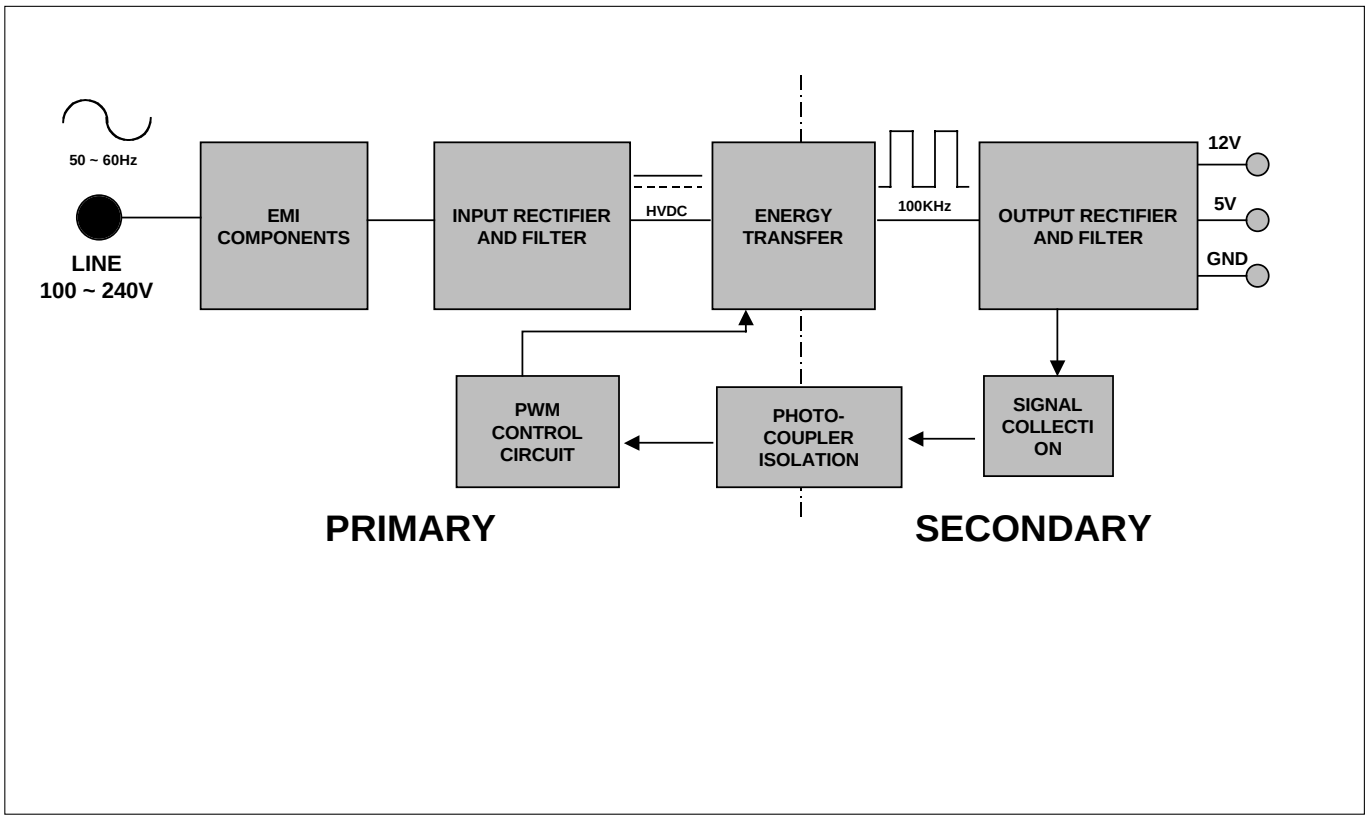
2. Power Part.

This part consists of the one 3.3V regulator, and two 2.5V drop diodes to convert power which is provided 12V, 5V in Power board.
5V is provided for LCD panel and Micom.
Also, 5V is converted 3.3V by regulator and 3.3V is converted 2.5V by drop diode.
Converted power is provided for IC in the main board.

3. MICOM Part.

This part consists of EEPROM IC which stores control data, Reset IC and the Micom.
The Micom distinguishes polarity and frequency of the H/V sync are supplied from signal cable.
The controlled data of each modes is stored in EEPROM.

LIPS Board Block Diagram



Operation description_LIPS

1. EMI components.

This part contains of EMI components to comply with global marketing EMI standards like FCC,VCCI CISPR, the circuit included a line-filter, across line capacitor and of course the primary protection fuse.

2. Input rectifier and filter.

This part function is for transfer the input AC voltage to a DC voltage through a bridge rectifier and a bulk capacitor.

3. Energy Transfer.

This part function is for transfer the primary energy to secondary through a power transformer.

4. Output rectifier and filter.

This part function is to make a pulse width modulation control and to provide the driver signal to power switch,to adjust the duty cycle during different AC input and output loading condition to achieve the dc output stabilized, and also
the over power protection is also monitor by this part.

5. Photo-Coupler isolation.

This part function is to feed back the dc output changing status through a photo transistor to primary controller to achieve the stabilized dc output voltage.

6. Signal collection.

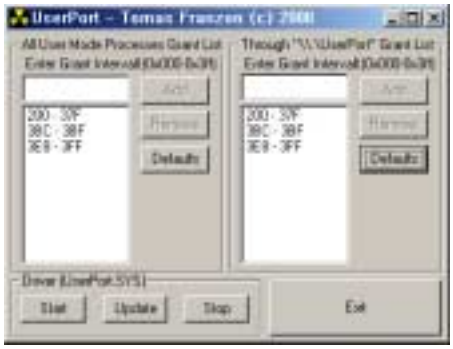
This part function is to collect the any change from the dc output and feed back to the primary through photo transistor

ADJUSTMENT

Windows EDID V1.0 User Manual

Operating System: MS Windows 98, 2000, XP
Port Setup: Windows 98 => Don't need setup
Windows 2000, XP => Need to Port Setup.
This program is available to LCD Monitor only.

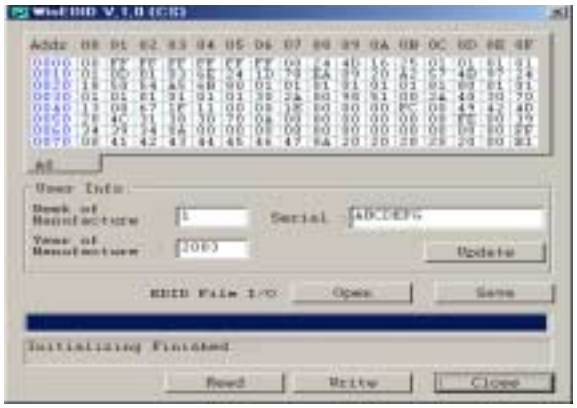
1. Port Setup
   a) Copy "UserPort.sys" file to
   "c:\WINNT\system32\drivers" folder
   b) Run Userport.exe



   c) Remove all default number
   d) Add 300-3FF

   e) Click Start button.
   f) Click Exit button.

2. EDID Read & Write
   1) Run WinEDID.exe



   2) Edit Week of Manufacture, Year of Manufacture, Serial Number
      a) Input User Info Data
      b) Click "Update" button
      c) Click " Write" button

SERVICE OSD

1) Turn off the power switch at the front side of the display.

2) Wait for about 3 seconds and press MENU, POWER switch with 1 second interval.

3) The SVC OSD menu contains additional menus that the User OSD menu as described below.

a) MODULE : To select applied module.
b) NVRAM INIT : EEPROM initialize(24C08)
c) ADC OFFSET : The lowest value of input leves sets to digitally 0(zero).
d) ADC GAIN : The highest value of input levels sets to digitally 255.
e) ADC CAL : W/B balance sets the gain and offset value.
f) ELAPSED CLEAR : To initialize using time.

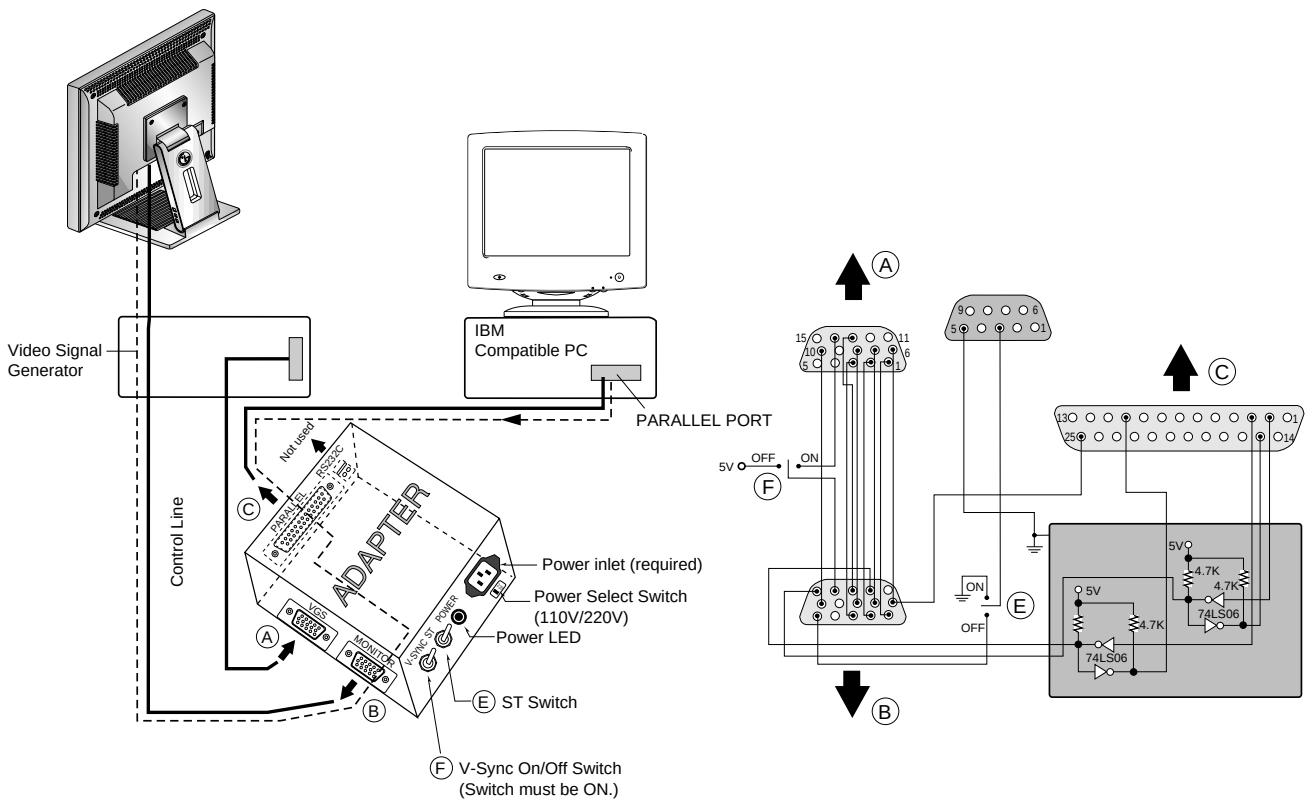
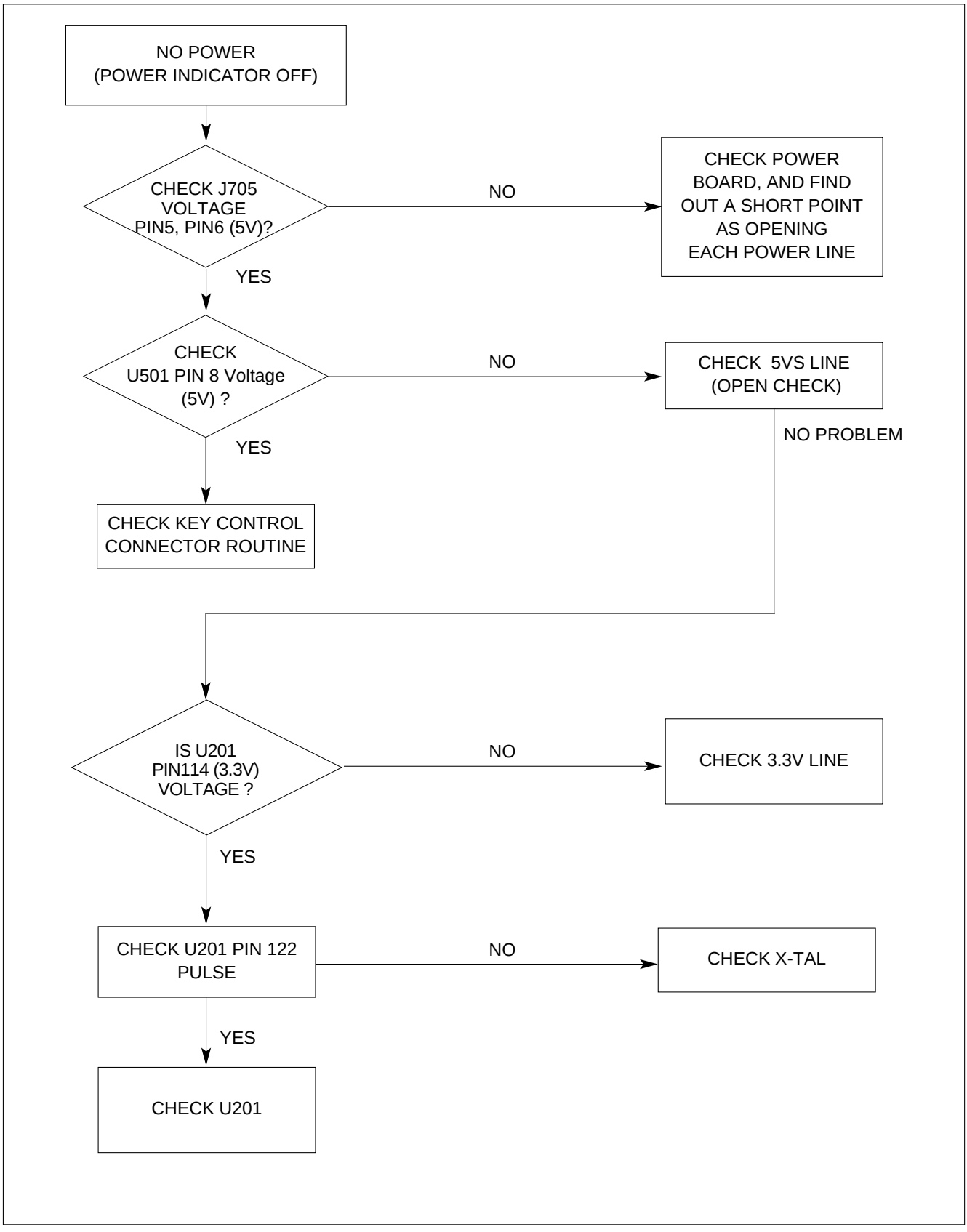


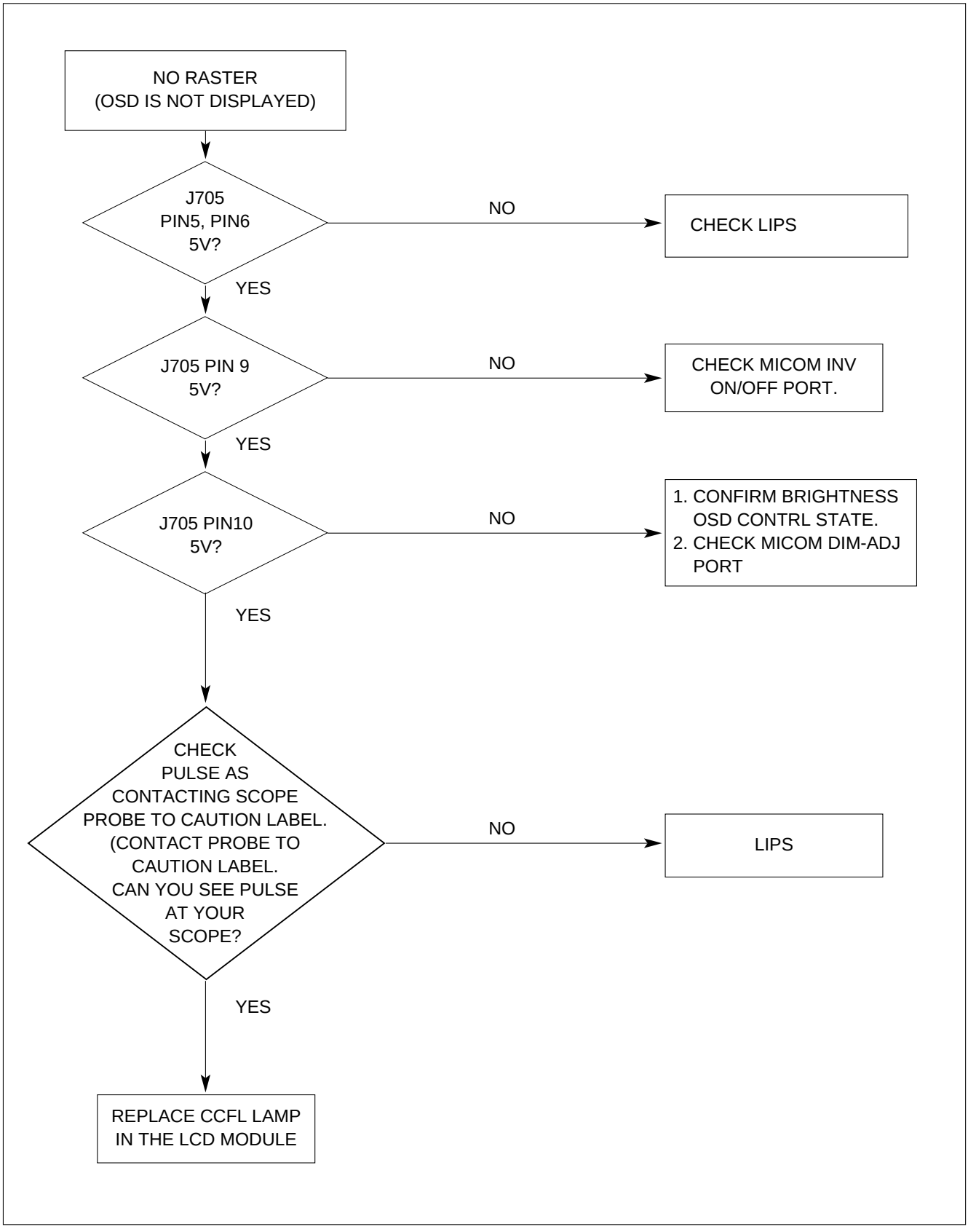
Figure 1. Cable Connection

TROUBLESHOOTING GUIDE

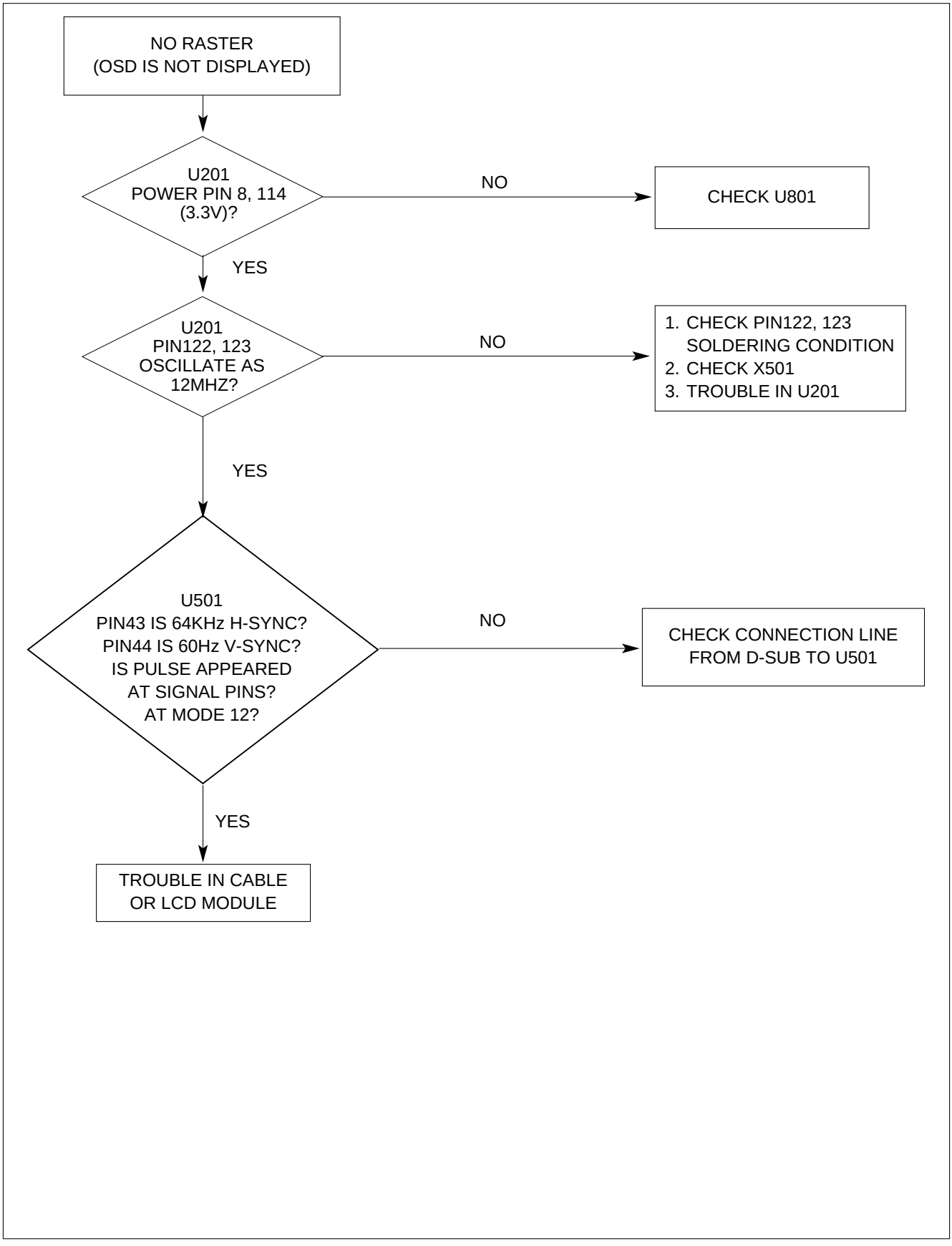
1. NO POWER



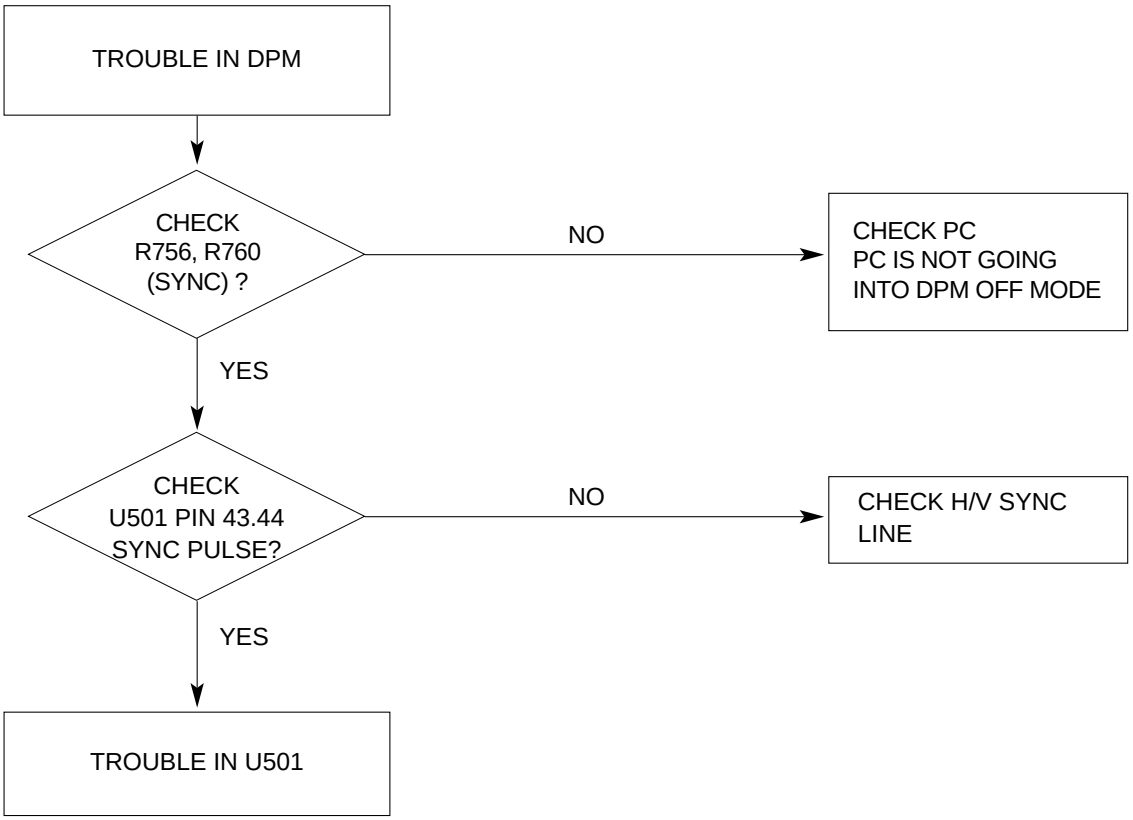
2. NO RASTER (OSD IS NOT DISPLAYED) – LIPS



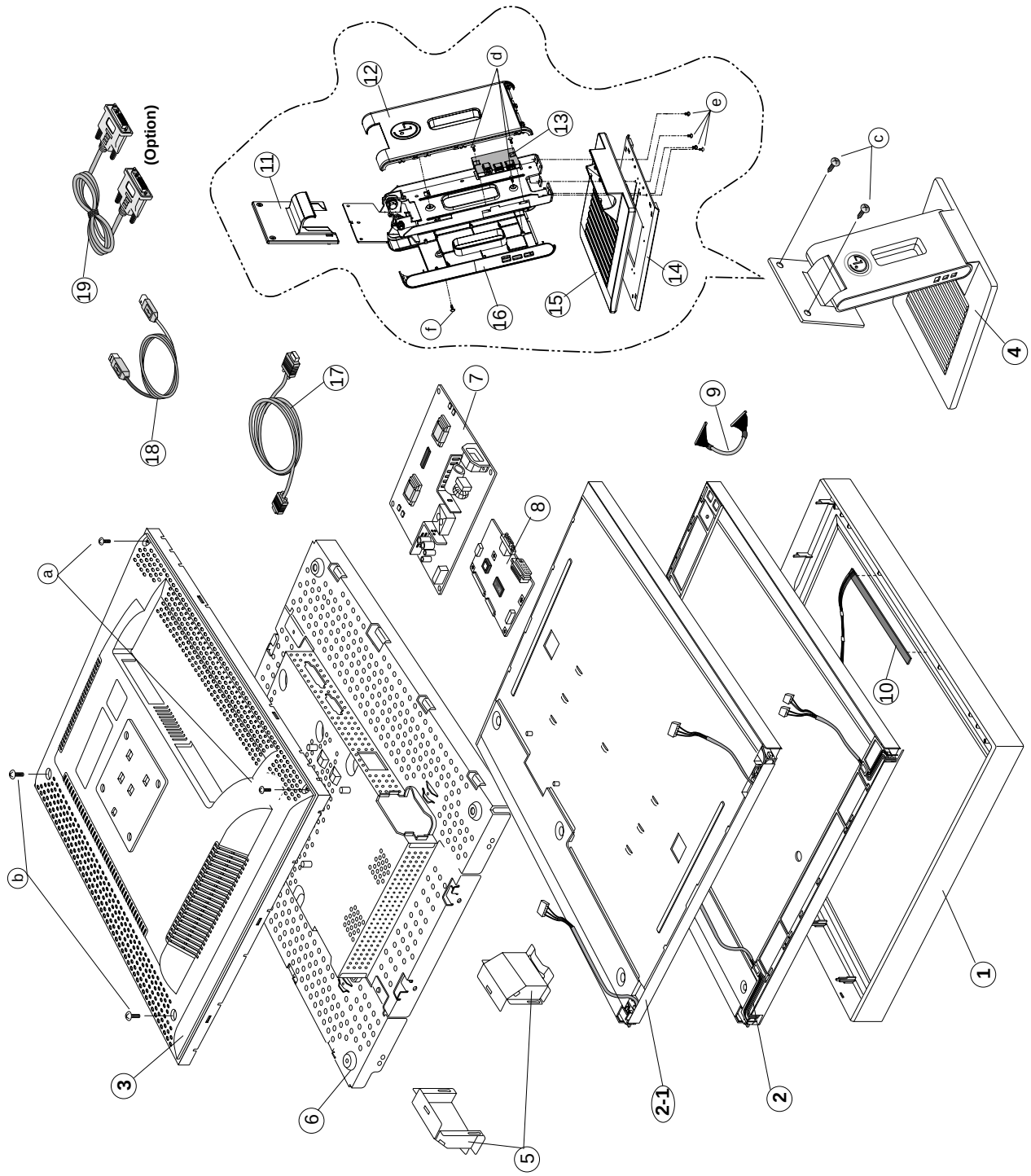
3. NO RASTER (OSD IS NOT DISPLAYED) – MST9131B



4. TROUBLE IN DPM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKL053K	CABINET ASSEMBLY, L1710BL BRAND 3090TKL053A HF350U
2	6304FLP086A	LCD(LIQUID CRYSTAL DISPLAY), LM170E01-A5K6 ***LG PHILPS TFT COLOR*** LVDS SXGA OKI GATE D-IC
	6304FBH007A	LCD(LIQUID CRYSTAL DISPLAY), HT17E13-100 ***BOE-HYDIS TFT*** COLOR LVDS SXGA
	6304FCI005B	LCD(LIQUID CRYSTAL DISPLAY), M170E5-L05 ***CHIMEI TFT COLOR*** 300NITS 16MS TCO-03 TN SXGA
2-1	6304FAU012A	LCD(LIQUID CRYSTAL DISPLAY), M170EN05V5 ***AU TFT*** COLOR SXGA 250NIT GEN5
3	3809TKL035A	BACK COVER ASSEMBLY, LB700K 3808TKL039A HF350U
4	3043TKK091Q	TILT SWIVEL ASSEMBLY, L1810BL/L1710BL , USB
5	4814TKK231A	SHIELD, INVERTER LAMP WIRE,LB700K
6	4951TKS102T	METAL ASSEMBLY, FRAME LPL,HD,1710BL_***LPL, HYDIS***
	4951TKS102G	METAL ASSEMBLY, FRAME L1710BL_***CMO***
	4951TKS102A	METAL ASSEMBLY, FRAME L1710BL_***AU***
7	6871TPT271B	PWB(PCB) ASSEMBLY, POWER, L1710SM POWER TOTAL LIEN CHANG M-CHASSIS THE INTERGRATED LIPS FOR LPL,CMO,HD
	6871TPT271D	PWB(PCB) ASSEMBLY, POWER, "17" AUO M-CHASSIS POWER TOAL LIEN CHANG "INTEGRATED LIPS" ***-AU only***
8	3313TL7028A	MAIN TOTAL ASSEMBLY L1710BM BRAND CL-62 _***LPL, HYDIS, CMO***
	3313TL7034A	MAIN TOTAL ASSEMBLY L1710BM BRAND CL-62 _***AU***
9	6631T11012W	CONNECTOR ASSEMBLY, 30P H-H 200MM UL20276 LG708G
10	6871TST374A	PWB(PCB) ASSEMBLY, SUB, L1710BL CONTROL TOTAL BRAND CONTROL
11	3550TKK257A	COVER, LB800H STAND TOP HINGE 85964
12	3550TKK255A	COVER, LB800H STAND REAR 85964
13	6871TUT029A	PWB(PCB) ASSEMBLY, USB, L1710BL SUB TOTAL BRAND USB
14	4950TKK430A	METAL, STAND BASE LB800H SPCC2.0T
15	3550TKK256A	COVER, LB800H STAND BOTTOM 85964
16	3550TKK254A	COVER, LB800H STAND FRONT 85964
17	6850TD9004D	CABLE, D-SUB, UL20276-9C(5.8MM) DT 1560MM GRAY(85964) LB500L DM
18	6866TDU002D	CABLE, D-SUB, UL20276SB10P+2C AWG#30 DT 1870MM GRAY(85964) BRAND DM
19	6866TDV004C	CABLE, DVI, UL20276 DT 2000MM GRAY(85964) LB885C DM
a	1SZZTMF008A	SCREW,DRAWING, D3.0 L6.0 MSWR/FZMY
b	332-113S	SCREW,DRAWING, D3.0 L12.0 MSWR/BK
c	332-105G	SCREW,DRAWING, PVS+4*10(MSWR/BK)
d	332-068U	SCREW, PPB+3*8 (MSWR/FZMW1)
e	332-105K	SCREW,DRAWING, D4.0 L10.0 MSWR/FZMCW1 KNURLING
f	332-113R	SCREW,DRAWING, D3.0 L16.0 MSWR/BK

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.
* NOTE : **S** SAFETY Mark ⚠
AL ALTERNATIVE PARTS

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		MAIN BOARD		
		CAPACITORS		
		C204	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C205	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C206	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C207	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C208	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C209	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C210	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C211	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C213	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C214	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C215	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C216	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C217	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C218	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C219	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C220	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C221	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C222	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C223	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C224	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C225	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C226	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C227	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C230	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C231	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C232	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C233	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C240	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C251	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C501	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C502	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C503	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C504	0CH8106F611	10UF 16V M 85STD(CYL) R/TP
		C506	0CC030CK01A	3PF 1608 50V 0.25 PF R/TP NP0
		C507	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C508	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C701	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C703	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C707	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C708	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C709	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C710	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C711	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C712	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C713	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C714	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C717	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C718	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C719	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C720	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C721	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C722	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C723	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C724	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C725	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C726	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C727	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C728	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C732	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C733	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C734	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C735	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C737	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C738	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C739	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C740	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C741	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C742	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C743	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C760	0CE107EF610	"100UF KMG,RD 16V 20% FL BULK"
		C801	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C803	0CE107EF610	"100UF KMG,RD 16V 20% FL BULK"
		C804	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C805	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C806	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C807	0CE107EF610	"100UF KMG,RD 16V 20% FL BULK"
		C808	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C809	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C810	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C812	0CE107EF610	"100UF KMG,RD 16V 20% FL BULK"
		C814	0CE107EF610	"100UF KMG,RD 16V 20% FL BULK"
		C815	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C816	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y5P
		C817	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R **-AUO Module**
		C818	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0 **-AUO Module**
		DIODEs		
		D701	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D702	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D706	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D708	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D709	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D710	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D711	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D712	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D713	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D714	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D715	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D719	0DD184009AA	KDS184 TP KEC - 85V - - - 300M
		D720	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D721	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D722	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D723	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D724	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D725	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D804	0DD184009AA	KDS184 TP KEC - 85V - - - 300M
		D805	0DD184009AA	KDS184 TP KEC - 85V - - - 300M
		ZD701	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD702	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD703	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD704	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD705	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD706	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD709	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD711	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD712	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
	ICs			
		U201	0IPRPM3011B	"MST9131B(DUAL) MSTAR 128P,LQFP"
		U501	0IZZTSZ331A	M-CHASSIS MYSON 44P PLCC ST OP
		U502	0ISG240860B	M24C08W6 SGS-THOMSON 8SOP R/TP
		U703	0IMMRSG036A	"M24C02-WMN6T SGS-THOMSON 8P,SO"
		U801	0IPMGKE011A	KIA78D33F KEC DPAK R/TP 3.3V L
		U802	0TFVI80023A	VISHAY SI3865DV R/TP TSOP-6 8V **-AUO Module**
	TRANSISTOR			
		Q502	0IKE704200H	KIA7042AP TO-92 TP 4.2 VOLT.
		Q503	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP S
		Q504	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP S
		Q505	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP S
		Q703	0TR390609FA	KST3906-MTF TP SAMSUNG SOT23
		Q704	0TR390609FA	KST3906-MTF TP SAMSUNG SOT23
		Q706	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP S
		Q707	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP S
		Q801	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92
		Q802	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP S
	RESISTORs			
		R201	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R202	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R203	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R207	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
		R208	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R209	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R210	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R216	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R217	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R220	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R240	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R501	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R506	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R508	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R512	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R513	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R514	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R515	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R516	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R518	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R519	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R520	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R521	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R522	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R523	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R524	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R525	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R526	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R527	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R528	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R529	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R530	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R531	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R532	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R534	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R535	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R537	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R541	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R542	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R543	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R544	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R545	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R546	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R547	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R548	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R549	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R555	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R556	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R557	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R560	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R560	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/TP **-AUO Module**
		R561	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R562	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R563	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R564	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R701	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R702	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R703	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R704	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R706	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R708	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R709	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R712	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R713	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R716	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R717	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R720	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R722	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R723	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R724	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R726	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R727	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R728	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R729	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R730	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R731	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R737	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R744	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R745	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R747	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R748	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R755	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R756	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R759	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R760	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R762	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R763	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R764	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP

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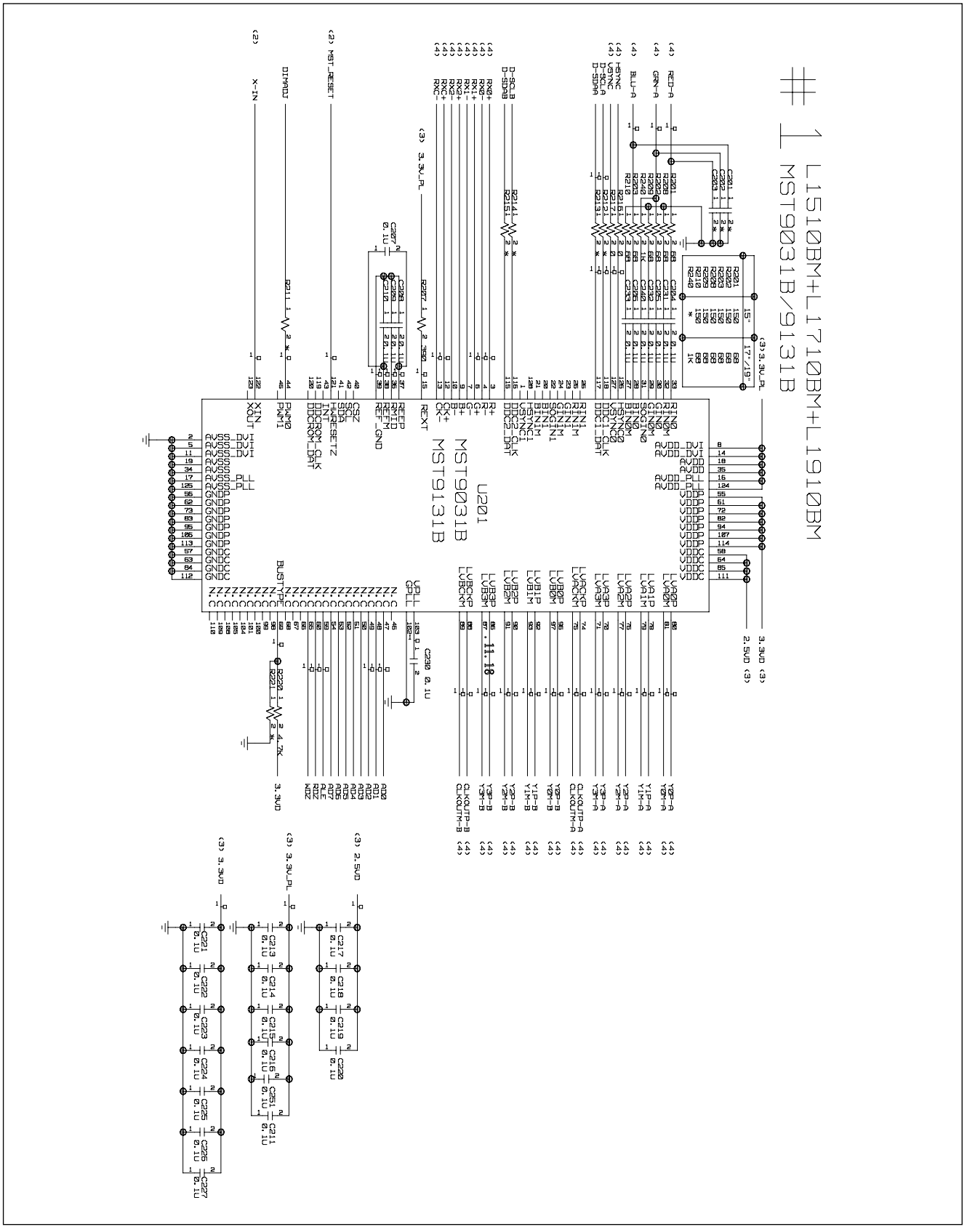
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R765	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R766	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R769	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R772	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R773	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R774	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R775	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R776	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R777	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R778	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R803	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R804	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R805	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
		R806	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
		R807	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R808	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R810	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R814	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP **-AUO Module**
		R815	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP **-AUO Module**
		R818	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
		R819	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
		R820	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R821	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R822	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
	OTHERs			
		X501	6212AA2004A	HC-49U TXC 12.0MHZ +/- 30 PPM
	USB BOARD			
		C801	0CE107EF638	100UF KMG 16V M FM5 TP 5
		C803	0CE107EF638	100UF KMG 16V M FM5 TP 5
		C805	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C806	0CE107EF638	100UF KMG 16V M FM5 TP 5
		C807	0CE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"
		C808	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C809	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C810	0CE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"
		C812	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C813	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R/
		C820	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C821	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C822	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C823	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C831	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C832	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C850	0CN1040K949	0.1M 50V Z F TA52
		C851	0CN1040K949	0.1M 50V Z F TA52
		IC801	0IPH112200C	"ISP1122ABD 32P,LQFP R/TP USB H"
		IC802	0ITI204200B	TPS2042ADR TEXAS INSTRUMENT 8S
		L801	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		L802	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		L803	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		L804	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM
		L805	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM
		L807	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM
		L808	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM
		L809	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM
		L810	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM
		L811	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM
		L812	6210TCE001H	HB-1T2012-301JT CERATEC 2012MM

DATE: 2004. 2.. 3.

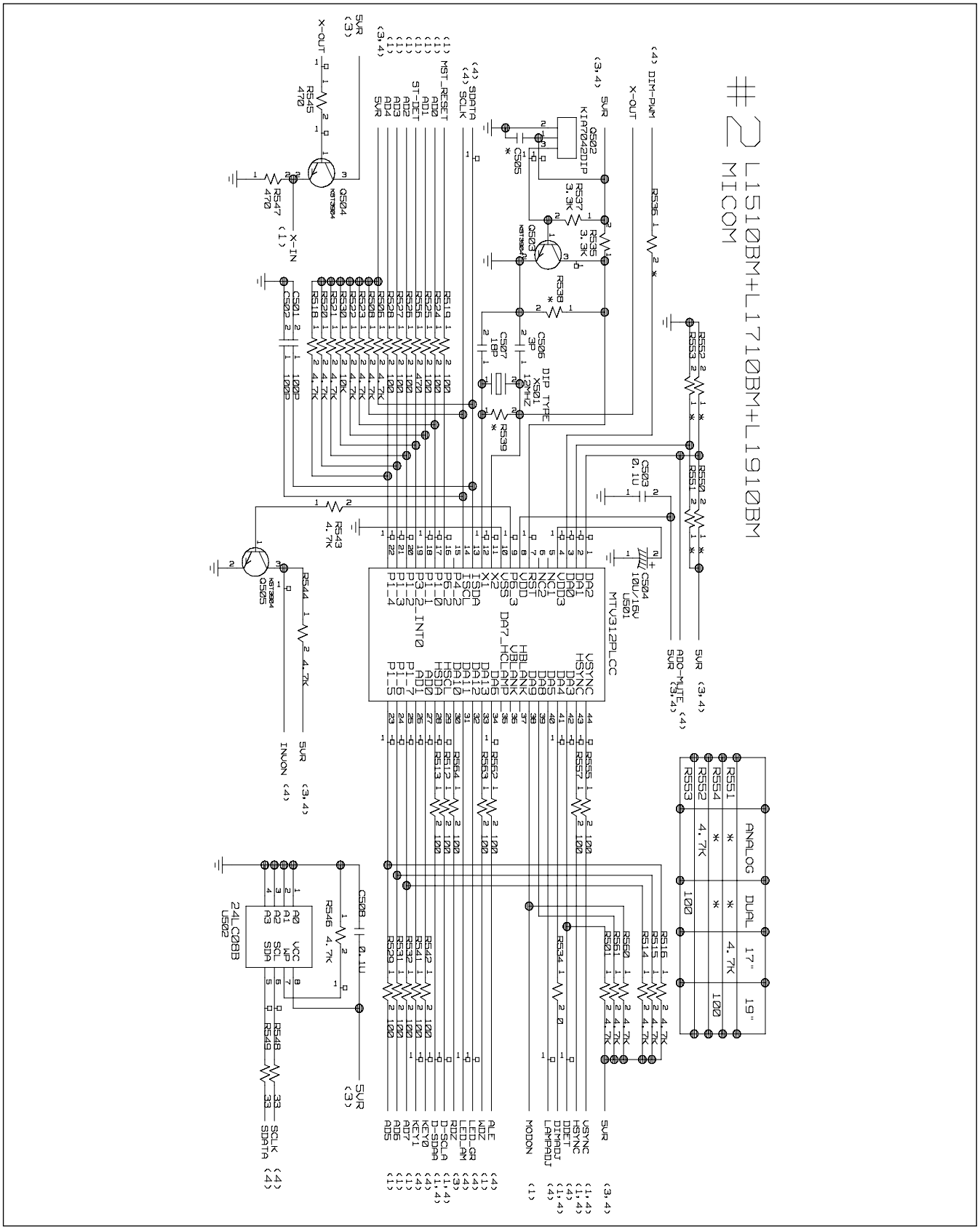
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R801	0RH1502D622	15K 1/10W 5 D.R/TP
		R802	0RH1502D622	15K 1/10W 5 D.R/TP
		R803	0RH1502D622	15K 1/10W 5 D.R/TP
		R804	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R805	0RD0222Q609	22 1/4W(3 5% TA52
		R806	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R807	0RH1502D622	15K 1/10W 5 D.R/TP
		R808	0RD0222Q609	22 1/4W(3 5% TA52
		R809	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R810	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R811	0RH1003D622	100K 1/10W 5 D.R/TP
		R812	0RH1003D622	100K 1/10W 5 D.R/TP
		R813	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R814	0RH1004D622	1.0M 1/10W 5 D.R/TP
		R817	0RD0222Q609	22 1/4W(3 5% TA52
		R821	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R828	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R829	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R830	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R835	0RH1003D622	100K 1/10W 5 D.R/TP
		R836	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R837	0RD3301Q509	3.3K OHM 1/4 W (3.4) 2% TA52
		R841	0RD1502Q609	15K 1/4W(3 5% TA52
		R842	0RD1502Q609	15K 1/4W(3 5% TA52
		R850	0RD1502Q609	15K 1/4W(3 5% TA52
		R851	0RD1502Q609	15K 1/4W(3 5% TA52
		X801	6202TTB002B	ATS-49/U SUNNY RADIAL 6MHZ 30P
		ZD801	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD802	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD803	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD804	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD805	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD806	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD807	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
		ZD811	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
		ZD812	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
	CONTROL BOARD			
		SW1	140-058E	SKHV10910B LGEC NON 12V 20A HO
		SW2	140-058E	SKHV10910B LGEC NON 12V 20A HO
		SW3	140-058E	SKHV10910B LGEC NON 12V 20A HO
		SW4	140-058E	SKHV10910B LGEC NON 12V 20A HO
		SW5	140-058E	SKHV10910B LGEC NON 12V 20A HO
		SW6	140-058E	SKHV10910B LGEC NON 12V 20A HO
		SW7	140-058E	SKHV10910B LGEC NON 12V 20A HO
		SW8	140-058E	SKHV10910B LGEC NON 12V 20A HO
		J1	6631T20024B	6P-7P H-B 300MM UL1061 AWG26 T
		LED1	0DLLT0208AA	LITEON LTST-C155KGJSKT R/TP GR
		R1	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R2	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R3	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R4	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R5	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/TP
		R6	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/TP
		R7	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R8	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP

SCHEMATIC DIAGRAM

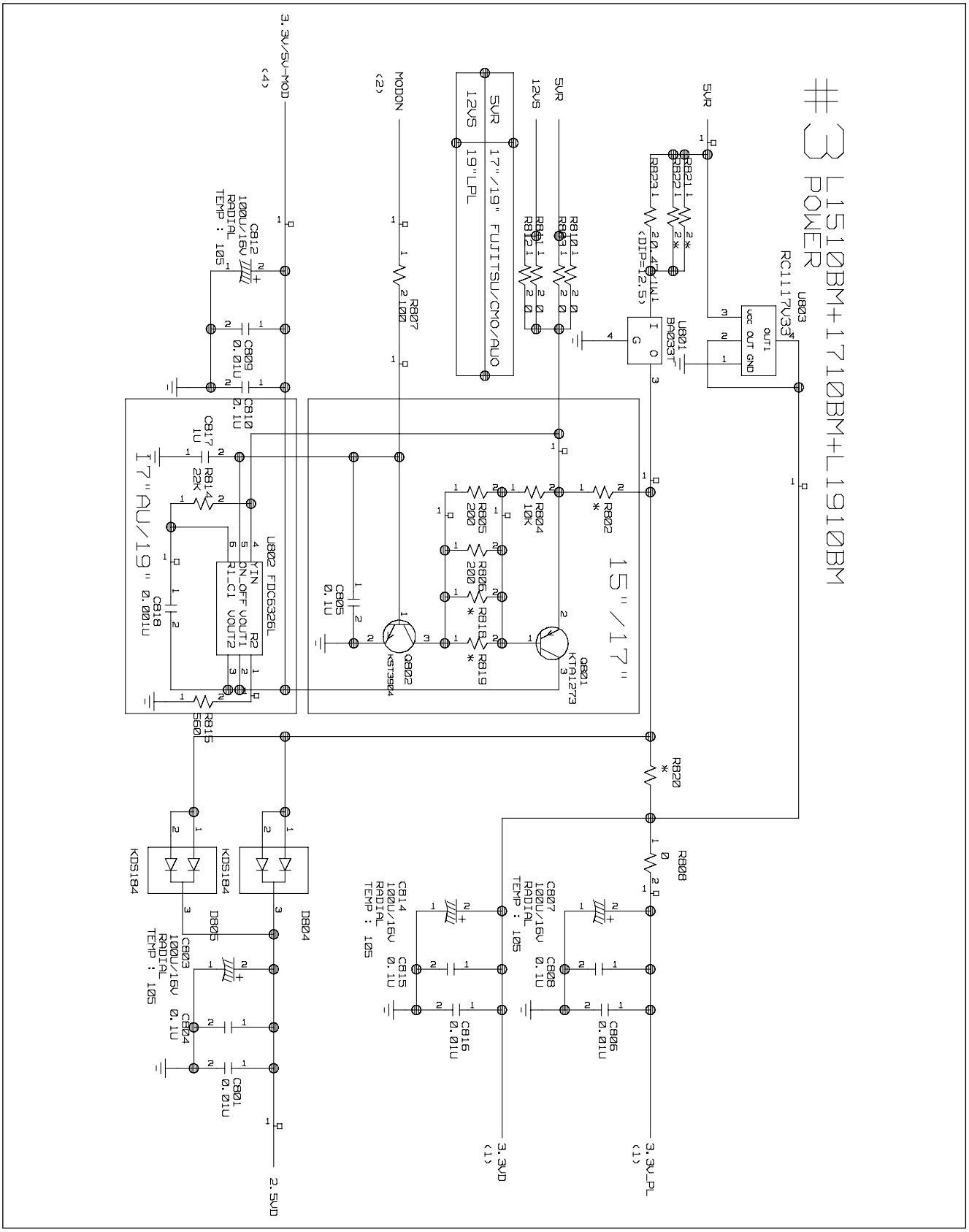
1. MST9131B



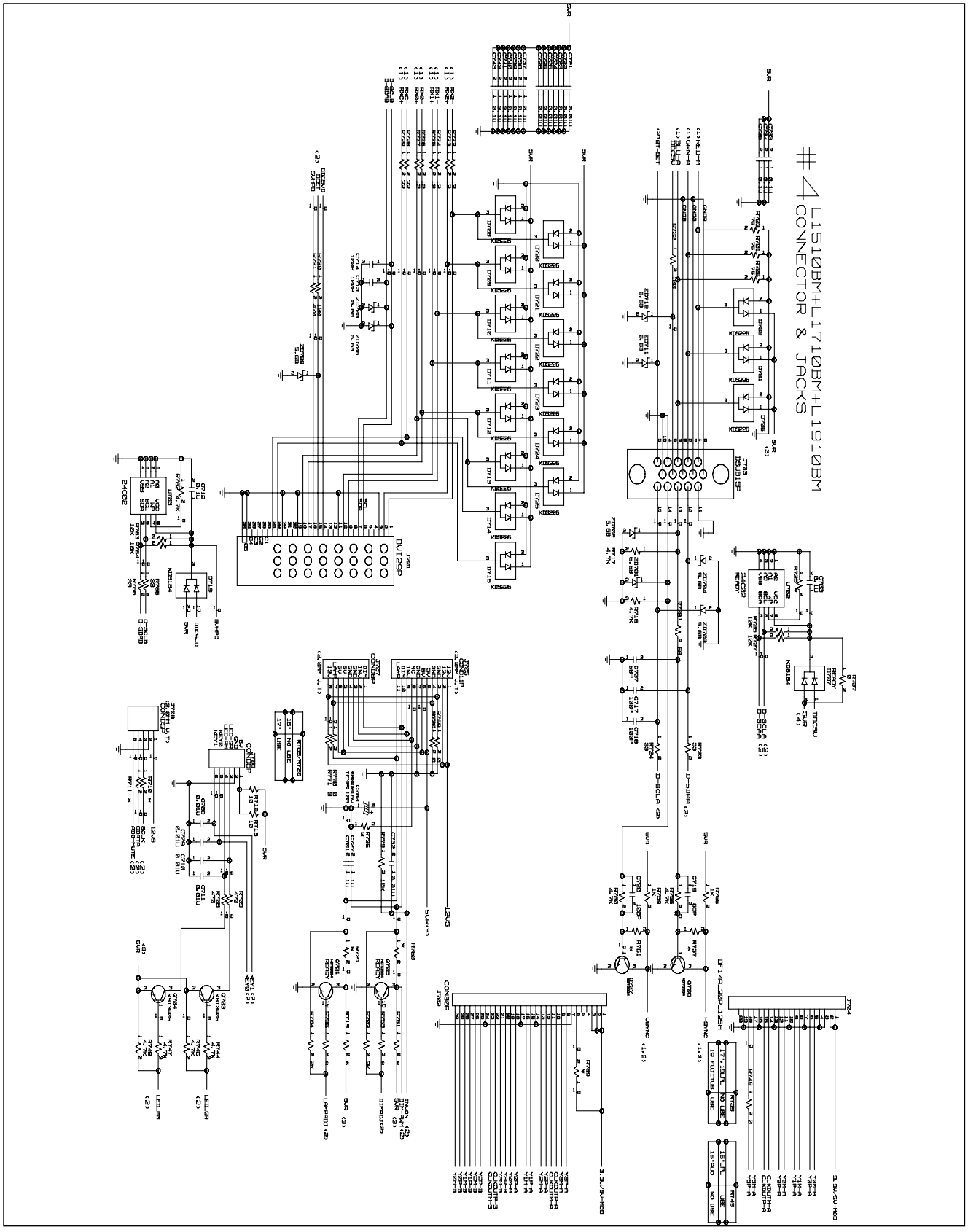
2. MICOM


#2 L1510BM+L1710BM+L1910BM
MICOM
MTV312PLCC
DIP TYPE
KIA7042DIP
24LC08B
U502
ANALOG
DUAL
17"
19"
4.7K
100
INVON
MODON
ADC-MUTE
SCLK
SDATA
X-OUT
X-IN

3. POWER


#3 L1510BM+1710BM+L1910BM
POWER
RC1117V33
U803
VCC OUT GND
OUT1
5VR
R821 1 2 *
R822 1 2 *
R823 1 2 0.47 1W1
(DIP=2.5)
U801
BA033T
I G O
R810 1 2 0
R811 1 2 0
R812 1 2 0
12VS
R807 2 100
MODON
(2)
3.3V/5V-MOD
(4)
C812 100U/16V RADIAL TEMP : 105
C809 0.01U
C810 0.1U
C817 1U
R814 22K
U802 FDC6326L
4 VIN
5 ON_OFF VOUT1
6 R1.C1 VOUT2
R2
C818 0.001U
17"AU/19"
R815 560
KDS184
D805
D804
C803 100U/16V RADIAL TEMP : 105
C804 0.1U
C801 0.01U
2.5VD
17"/19" FUJITSU/CMO/AUO
5VR
12VS
19"LPL
15"/17"
R804 10K
R802 *
R805 200
R806 200
R818 *
R819 *
Q802 KST3904
Q801 KTA1273
C805 0.1U
R820 *
R808 0
C807 100U/16V RADIAL TEMP : 105
C808 0.1U
C806 0.01U
C814 100U/16V RADIAL TEMP : 105
C815 0.1U
C816 0.01U
3.3VD (1)
3.3V_PL (1)

4. CONNECT & JACK



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